

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS, AND MINING**

SUBMIT IN TRIPLICATE\*  
 (Other instructions on  
 reverse side)

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

<p>1a. Type of Work          DRILL <input checked="" type="checkbox"/>      DEEPEN <input type="checkbox"/>      PLUG BACK <input type="checkbox"/></p> <p>b. Type of Well          Oil Well <input checked="" type="checkbox"/>      Gas Well <input type="checkbox"/>      Other <input type="checkbox"/>      Single Zone <input type="checkbox"/>      Multiple Zone <input type="checkbox"/></p> <p>2. Name of Operator          William C. Kirkwood</p> <p>3. Address of Operator          P.O. Box 3439, Casper, WY 82602</p> <p>4. Location of Well (Report location clearly and in accordance with any State requirements.)*          At surface 752' FSL &amp; 1895' FEL (SWSE)          At proposed prod. zone</p> <p>14. Distance in miles and direction from nearest town or post office*          Approximately 50 miles East of Hanksville, Utah</p> <p>15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any) 752'</p> <p>16. No. of acres in lease 640</p> <p>17. No. of acres assigned to this well 40</p> <p>18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft. 800'</p> <p>19. Proposed depth 800' <i>Organ Rock</i></p> <p>20. Rotary or cable tools Rotary</p> <p>21. Elevations (Show whether DF, RT, GR, etc.) 5058' GR</p> <p>22. Approx. date work will start* June 15, 1981</p>	<p>5. Lease Designation and Serial No.          ML-27138</p> <p>6. If Indian, Allottee or Tribe Name          N/A</p> <p>7. Unit Agreement Name          Hatch Canyon Unit</p> <p>8. Farm or Lease Name          State</p> <p>9. Well No.          #34-16D</p> <p>10. Field and Pool, or Wildcat          Wildcat</p> <p>11. Sec., T., R., M., or Blk. and Survey or Area          Sec. 16, T31S, R15E</p> <p>12. County or Parrish 13. State          Garfield, Utah</p>
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23. PROPOSED CASING AND CEMENTING PROGRAM				
Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
8 1/2"	6 5/8"	24#, K-55, 8 Rd.	20'	10 sacks cement Class "G"
5 5/8"	4 1/2"	9.5#, K-55, 8 Rd.	800'	50 sacks cement Class "G"

1. Drill 8 1/2" hole and set 6 5/8" surface casing to 20' with good returns.
2. Log B.O.P. checks in daily drill reports and drill 5 5/8" hole to 800'.
3. Run tests if warranted and run 4 - 12" casing if productive
4. Run logs, as needed, and perforate and stimulate as needed.

**EXHIBITS ATTACHED**

"A" Location & Elevation Plan  
 "B" Engineering Program



**NOTE:**

This well will be drilled as part of a five spot well pattern for possible use in in situ recovery of Tar Sand.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Signed Wm C Vandewater Title Engineer Date May 7, 1981

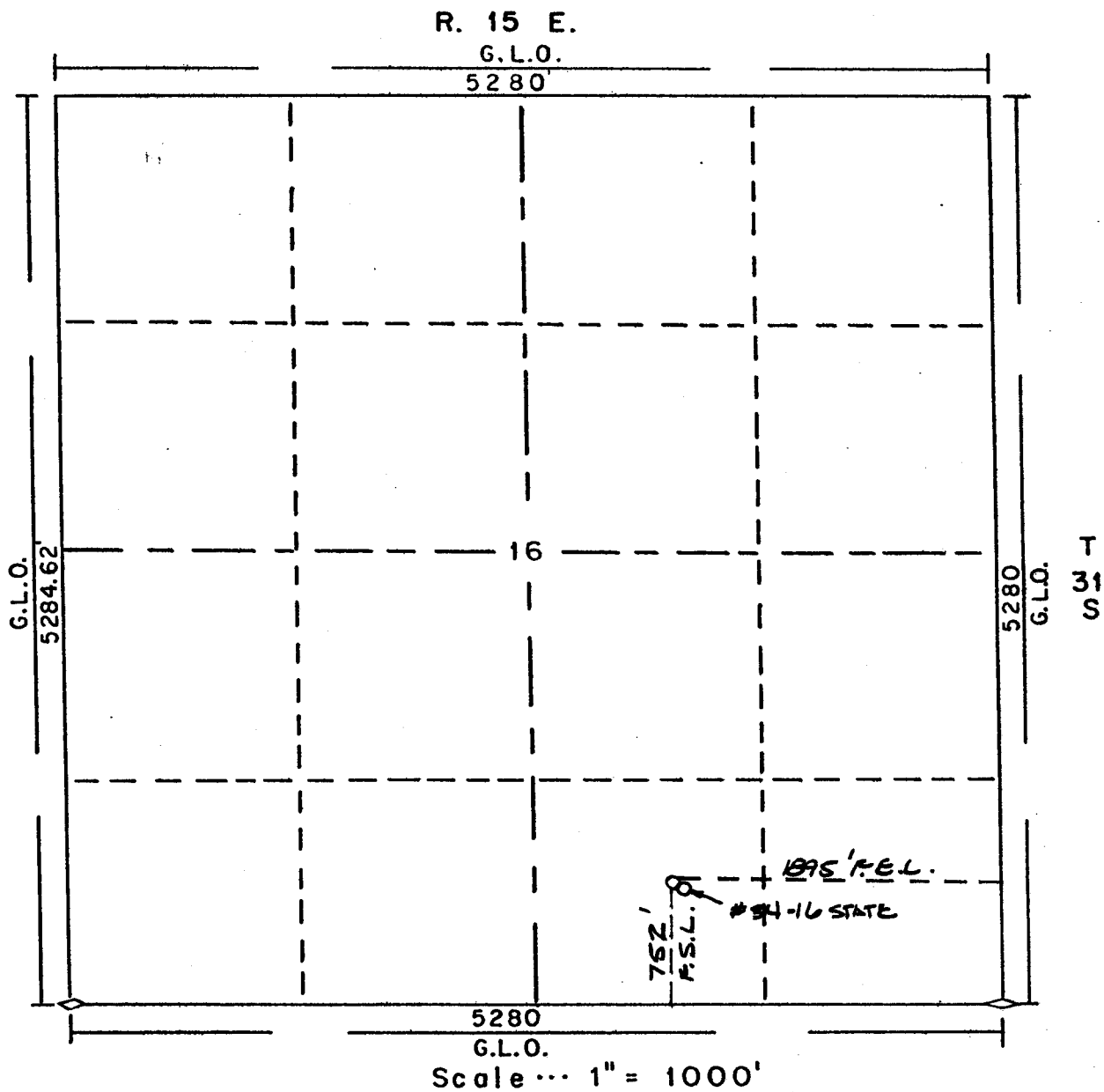
(This space for Federal or State office use)

Permit No. 43-017-30109 Approval Date \_\_\_\_\_

Approved by \_\_\_\_\_ Title \_\_\_\_\_

Conditions of approval, if any: \_\_\_\_\_

**APPROVED BY THE STATE**  
**OF UTAH DIVISION OF**  
**OIL, GAS, AND MINING**  
 DATE: 5-29-81  
 BY: M. J. Minder



LOCATION OF WILLIAM C. KIRKWOOD #34-16 D STATE

# LEGEND

Found Corner

Well Location

EXHIBIT "B"

ENGINEERING PROGRAM

William C. Kirkwood  
#34-16 D State  
Sec. 16, T31S, R15E  
752' FSL & 1895' FEL  
Garfield County, Utah

1. The Geologic Surface Formation

The surface formation is the Chinle.

2. Estimated Tops of Important Geologic Markers

White Rim      280'  
Organ Rock     760'

Total Depth   800'

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

No water zones are anticipated

White Rim      280'      Oil

4. The Proposed Casing Program

<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>SECTION LENGTH</u>	<u>SIZE (OD)</u>	<u>WEIGHT, GRADE &amp; JOINT</u>	<u>NEW OR USED</u>
8 1/2"	0-20'	20'	6 5/8"	24#, K-55, 8 Rd.	New
5 5/8"	0-800'	800'	4 1/2"	9.5#, K-55, 8 Rd.	New

Cement Program

- A. Surface casing: 10 sacks cement, Class "G", 2% CaCl  
B. Production casing: 50 sacks cement, Class "G", 2% CaCl

5. The Operator's Minimum Specifications for Pressure Control

Not Applicable

6. The Type and Characteristics of the Proposed Circulation Muds

Not Applicable - Air Drilled.

7. The Auxiliary Equipment to be Used

Not Applicable

8. The Testing, Logging and Coring Programs to be Followed

- (a) No DST's are anticipated
- (b) An IES log and a Density log will be run from surface to total depth.
- (c) Coring is anticipated from the top of the White Rim to top of the Organ Rock.
- (d) Stimulation procedures will be determined after evaluation of logs. If treatment is indicated, appropriate notice will be submitted.

9. Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well.

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date is set for June 15, 1981, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 4 days after spudding the well and drilling to casing point.

\*\* FILE NOTATIONS \*\*

DATE: 5-29-81

OPERATOR: William C. Kirkwood

WELL NO: Hatch Canyon Unit 34-16D

Location: Sec. 16 T. 35 R. 15E County: Garfield

File Prepared: ☒

Entered on N.I.D: ☒

Card Indexed: ☒

Completion Sheet: ☒

API Number 43-017-30109

CHECKED BY:

Petroleum Engineer: M. S. Munder 5-29-81

Director: \_\_\_\_\_

Administrative Aide: In Hatch Canyon Unit; ok on Indrups for ore well; all formations unitized

APPROVAL LETTER:

Bond Required: ☐

Survey Plat Required: ☐

Order No. \_\_\_\_\_

O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site ☐

Lease Designation ST.

Plotted on Map ☐

Approval Letter Written ☒

Hot Line ☒

P.I. ☒

June 5, 1981

William C. Kirkwood  
P. O. Box 3439  
Casper, Wyoming 82602

Re: Well No. Hatch Canyon Unit 34-16D  
Sec. 16, T. 31S, R. 15E, SW SE  
Barfield County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer  
Office: 533-5771  
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-017-30109.

Sincerely,

DIVISION OF OIL, GAS, AND MINING



Michael T. Minder  
Petroleum Engineer

MTM/ko  
cc: State Land Board, Donald Prince



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

January 29, 1982

William C. Kirkwood  
P. O. Box 3439  
Casper, Wyoming 82602

Re: See attached

Gentlemen:

In reference to the above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan to drill this location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Carl Furse  
Clerk Typist

Has not been spud.  
Will be in June 1982.

Well No. Hatch Canyon Unit 34-16C  
Well No. Hatch Canyon Unit 34-16D  
T. 31S, R. 15E, Sec. 16  
Garfield County, Utah

Well No. C.C. #14-36  
Well No. Garfield #41-36  
T. 34S, R. 6E, SEC. 36  
Garfield County, Utah

Well No. White Rim #41-32  
T. 34S, R. 7E, SEC. 32  
Garfield County, Utah

Well No. Monroe #32-2  
T. 35S, R. 7E, SEC. 2  
Garfeild County, Utah



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPPLICATE\*  
(Other instructions on  
reverse side)

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)		5. LEASE DESIGNATION AND SERIAL NO. ML-27138
1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
2. NAME OF OPERATOR Kirkwood Oil & Gas		7. UNIT AGREEMENT NAME Hatch Canyon
3. ADDRESS OF OPERATOR P.O. Drawer 3439 Casper, Wy 82602		8. FARM OR LEASE NAME State
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  699' FSL & 1736' FEL (SWSE)		9. WELL NO. 34-16 D
14. PERMIT NO. 43-017-30109		10. FIELD AND POOL, OR WILDCAT Wildcat
15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 5058'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 16, T31S, R15E
		12. COUNTY OR PARISH 13. STATE Garfield Utah

16.

**Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐

(Other)

Spud Well

FULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐

(Other)

REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐

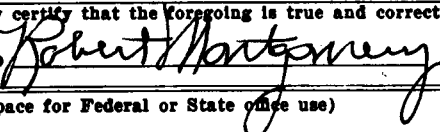
(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

We intend to spud this well on or before June 20, 1982.

18. I hereby certify that the foregoing is true and correct

SIGNED



TITLE

GEOLOGIST

DATE

2-8-82

(This space for Federal or State office use)

APPROVED BY

TITLE

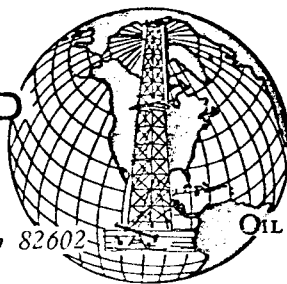
DATE

CONDITIONS OF APPROVAL, IF ANY:

WILLIAM C. KIRKWOOD

Suite 300 Market Square Building — 307/265-5178

P. O. Drawer 3439 — Casper, Wyoming 82602



OIL & GAS EXPLORATION & PRODUCTION

RECEIVED  
FEB 11 1982

February 9, 1982

State of Utah  
Natural Resources & Energy  
Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

DIVISION OF  
OIL, GAS & MINING

RE: Well No. Hatch Canyon Unit 34-16D  
T31S, R15E, Sec. 16  
Garfield County, Utah

Well No. C.C. #14-36  
Well No. Garfield #41-36  
T34S, R6E, Sec. 36  
Garfield County, Utah

Well No. White Rim #41-32  
T34S, R7E, Sec. 32  
Garfield County, Utah

Well No. Monroe #32-2  
T35S, R7E, Sec. 2  
Garfield County, Utah

Gentlemen:

Enclosed please find the requested Sundry Notices, form OGC-16, for the above mentioned wells. These wells have not been spudded and the approximate date of spudding is noted on the Sundry Notices.

If you have any questions or require any further information please contact us.

Sincerely,

  
Robert Montgomery

Enc

RM/lkb

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: KIRKWOOD OIL AND GAS

WELL NAME: Hatch Canyon Unit #34-16-D

SECTION SWSE 16 TOWNSHIP <sup>31</sup>30 S RANGE 15 E COUNTY Garfield

DRILLING CONTRACTOR Beeman Drilling

RIG # 2

SPUDDED: DATE 6-12-82

TIME 5:30 PM

How Rotary

DRILLING WILL COMMENCE

REPORTED BY Robert Montgomery

TELEPHONE # 307-265-5178

DATE 6-15-82 SIGNED AS

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

### SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

<b>1. OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/> <b>2. NAME OF OPERATOR</b> <div style="text-align: center;">William C. Kirkwood</div> <b>3. ADDRESS OF OPERATOR</b> <div style="text-align: center;">P.O. Drawer 3439 Casper, WY 82602</div> <b>4. LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) <div style="text-align: center;">At surface 805' FSL &amp; 1842' FEL (SWSE)</div>		<b>5. LEASE DESIGNATION AND SERIAL NO.</b> <div style="text-align: center;">ML-27138</div> <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</b> <div style="text-align: center;">N/A</div> <b>7. UNIT AGREEMENT NAME</b> <div style="text-align: center;">Hatch Canyon Unit</div> <b>8. FARM OR LEASE NAME</b> <div style="text-align: center;">State</div> <b>9. WELL NO.</b> <div style="text-align: center;">34-16D</div> <b>10. FIELD AND POOL, OR WILDCAT</b> <div style="text-align: center;">Wildcat</div> <b>11. SEC., T., R., M., OR B.E. AND SURVEY OR AREA</b> <div style="text-align: center;">Section 16, T31S, R15E</div>
<b>14. PERMIT NO.</b> <div style="text-align: center;">43-017-30109</div>	<b>15. ELEVATIONS</b> (Show whether DF, RT, GR, etc.) <div style="text-align: center;">5058'GR</div>	
<b>12. COUNTY OR PARISH</b> <b>13. STATE</b> <div style="text-align: center;">Garfield Utah</div>		

**16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Change of location</u> <input type="checkbox"/>	
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

**17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS** (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The above location has been corrected from the location given on the Application for Permit to Drill, which was 752'FSL & 1875'FEL (SWSE), Section 16, T31S, R15E.

**18. I hereby certify that the foregoing is true and correct**

SIGNED

*Ronald E. Schuyler*

TITLE

Engineer

DATE

6-22-82

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBM (Or) TRIPPLICATE\*  
Instructions on  
reverse side)

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <b>OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/>		5. <b>LEASE DESIGNATION AND SERIAL NO.</b> ML-27138
2. <b>NAME OF OPERATOR</b> William C. Kirkwood		6. <b>IF INDIAN, ALLOTTEE OR TRIBE NAME</b> N/A
3. <b>ADDRESS OF OPERATOR</b> P.O. Drawer 3439 Casper, WY 82602		7. <b>UNIT AGREEMENT NAME</b> Hatch Canyon Unit
4. <b>LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 805' FSL & 1842' FEL (SWSE)		8. <b>FARM OR LEASE NAME</b> State
14. <b>PERMIT NO.</b> 43-017-30109	15. <b>ELEVATIONS</b> (Show whether DF, RT, CR, etc.) 5058' GR	9. <b>WELL NO.</b> 34-16D
		10. <b>FIELD AND POOL, OR WILDCAT</b> Wildcat
		11. <b>SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b> Section 16, T31S, R15E
		12. <b>COUNTY OR PARISH</b> 18. <b>STATE</b> Garfield Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐ FULL OR ALTER CASING ☐  
FRACTURE TREAT ☐ MULTIPLE COMPLETE ☐  
SHOOT OR ACIDIZE ☐ ABANDON\* ☐  
REPAIR WELL ☐ CHANGE PLANS ☐  
(Other) ☐

WATER SHUT-OFF ☐ REPAIRING WELL ☐  
FRACTURE TREATMENT ☐ ALTERING CASING ☐  
SHOOTING OR ACIDIZING ☐ ABANDONMENT\* ☐  
(Other) Change of location ☐

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The above location has been corrected from the location given on the Application for Permit to Drill, which was 752'FSL & 1845'FEL (SWSE), Section 16, T31S, R15E.

18. I hereby certify that the foregoing is true and correct

SIGNED Ronald E. Schuyler

TITLE Engineer

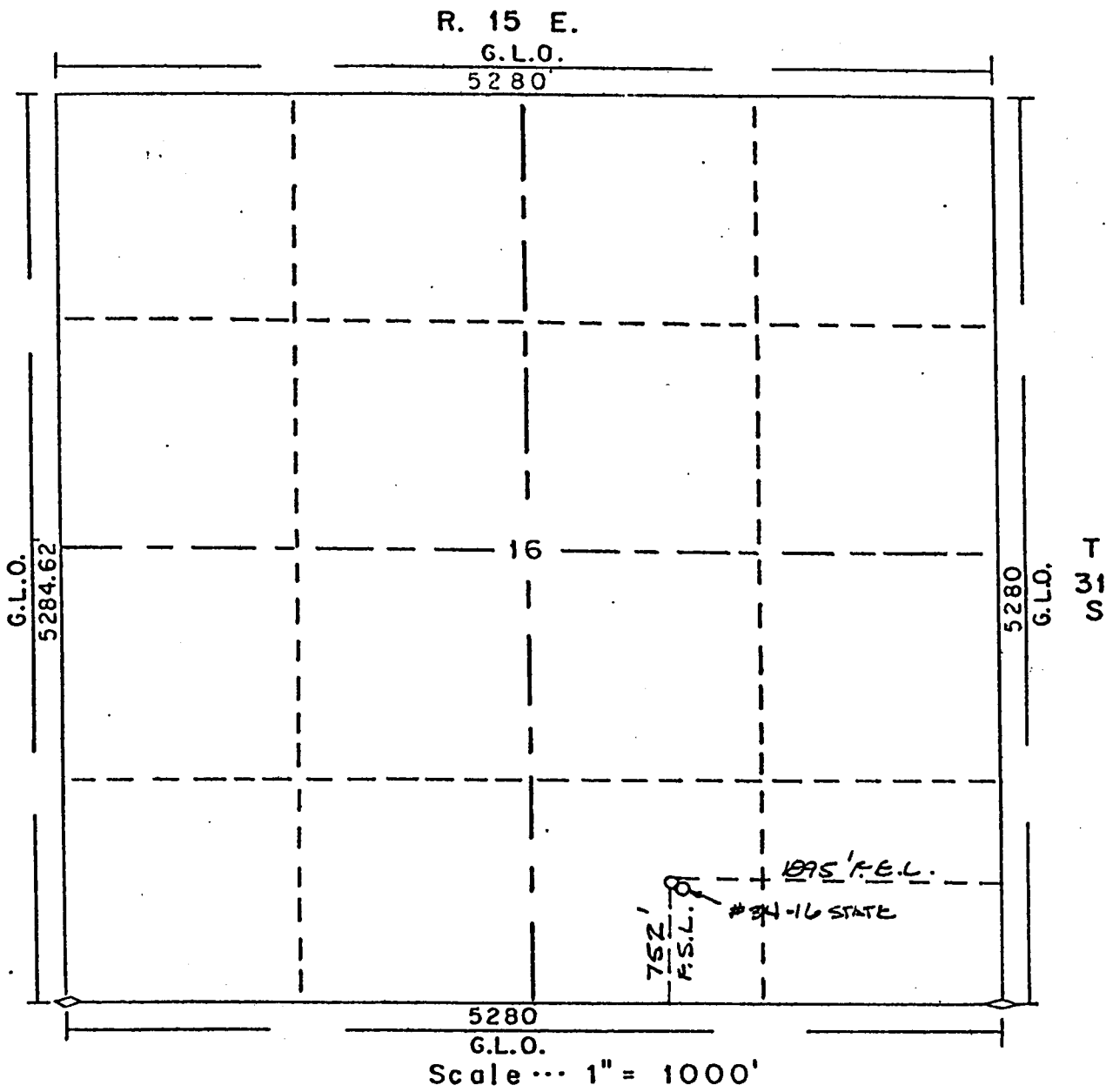
DATE 6-22-82

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

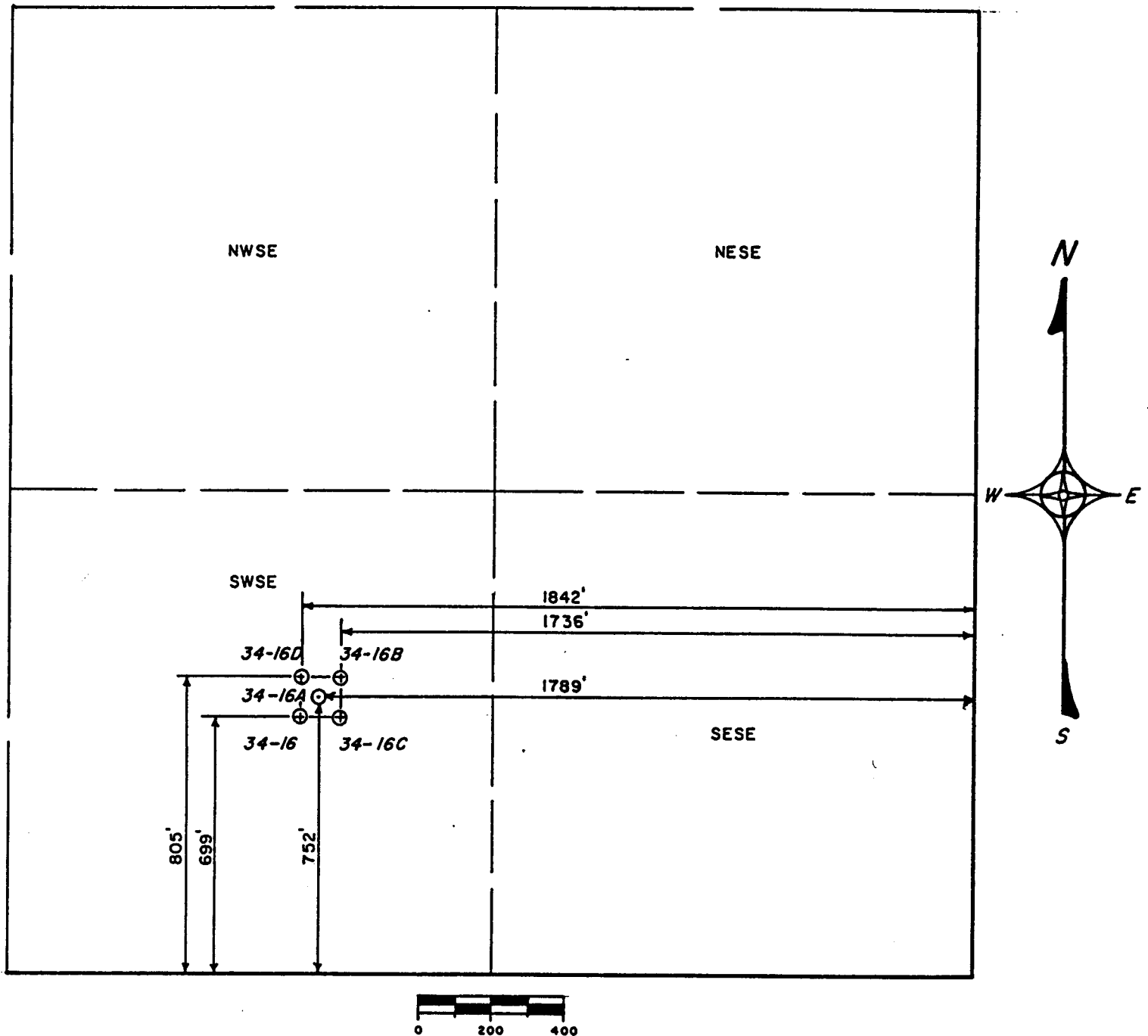


LOCATION OF WILLIAM C. KIRKWOOD #34-16 D STATE

- LEGEND
- Found Corner
  - Well Location

SE 1/4 - Sec. 16, T31S, R15E

Garfield County, Utah



42.017-20109  
Plat Showing Location Of Wells; 34-16, 34-16A,  
34-16B, 34-16C, And 34-16D In The SWSE/4  
Of Section 16, Township 31 South, Range 15 East,  
Garfield Co., Utah.



**WILLIAM C. KIRKWOOD**  
OIL & GAS EXPLORATION & PRODUCTION

120 So. Durbin  
P.O. Drawer 3439  
Casper, WYOMING 82601  
Telephone 307-265-5178

STATE OF UTAH

SUBMIT IN DATE

(See other instructions on reverse side)

## OIL &amp; GAS CONSERVATION COMMISSION

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL:		OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>	Other _____
b. TYPE OF COMPLETION:		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>
			DIFF. RESVR. <input type="checkbox"/>	Other _____	
2. NAME OF OPERATOR William C. Kirkwood 307-265-5178					
3. ADDRESS OF OPERATOR P.O. Drawer 3439 Casper, WY 82602					
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 805'FSL, 1842'FEL, Sec.16, T31S, R15E At top prod. interval reported below At total depth					
14. PERMIT NO.		DATE ISSUED			
43-017-30109		5-29-81			
15. DATE SPUDDED		16. DATE T.D. REACHED		17. DATE COMPL. (Ready to prod.)	
6-12-82		6-13-82		N/A	
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*		19. ELEV. CASINGHEAD			
5058'					
20. TOTAL DEPTH, MD & TVD		21. PLUG BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY*	
510'		505'		N/A	
23. INTERVALS DRILLED BY		ROTARY TOOLS		CABLE TOOLS	
→ Rotary					
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*					25. WAS DIRECTIONAL SURVEY MADE
290' - 409' White Rim Formation					No
26. TYPE ELECTRIC AND OTHER LOGS RUN					27. WAS WELL CORED
N/A					Yes
28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
7"	23#	17'-7"	8 3/4"	w/10 sacks	
4 1/2"	9.5#	505'	6 1/2"	w/70 sacks	
29. LINER RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	
30. TUBING RECORD					
SIZE	DEPTH SET (MD)	PACKER SET (MD)			
31. PERFORATION RECORD (Interval, size and number)			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
			DEPTH INTERVAL (MD)		
			AMOUNT AND KIND OF MATERIAL USED		
33. PRODUCTION					
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)			WELL STATUS (Producing or shut-in)
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)					TEST WITNESSED BY
35. LIST OF ATTACHMENTS					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED		TITLE		DATE	
Ronald E. Schuyler		Engineer		6-22-82	

\*(See Instructions and Spaces for Additional Data on Reverse Side)



# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysts, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUMULON USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	WEAR. DEPTH	TOP	TRUE VERT. DEPTH
Chinle	Surface	60'	Red & white silstones				
Moenkopi	60'	255'	Red shale & siltstones				
White Rim Upper	255'	290'	Blue dolomite w/ sandstone stringers				
White Rim	290'	510' (TD)	White sandstone, cross bedded w/ oil saturation from 290'-409'				
Note: Further completion procedures will be initiated when the results from core tests, etc. are computed.							

# CORE DESCRIPTION

RCM 79

FM TOPS	NOTES	DEPTHS	POROSITY	GRADES	ROUNDING	SORTING	% of FINE	GRAIN SIZE	HOLE # 34-16 D SPOT SWSE SEC 16 T30S R15E	LITHOLOGY DESCRIPTION	DIAGENESIS	SATURATION- OIL
CORE # 1		265-278								DIAGENIC SILT STONE w/ SS INFILL		Sat in SS
CORE # 2		278-280								SS w/ DIAGENIC CEMENT		Sat MOD in SS
CORE # 3		280-290								SS w/ THIN SS @ 284 w/ some cmt		" " " "
		290-300								SS FRAGILE @ 290 w/ VISIBLE CMT X-Bed (East)		" " " "
		300-302								SS VISIBLE CMT RELATED TO X-Bed (TIGHTER?)		LIGHT TO MOD TIGHT
		302-309								SS FRAGILE, LITTLE VIS. CMT		MOD TO HVY TIGHT
		309-315								SS VISIBLE CMT RELATED TO X-Bed		MOD TIGHT
CORE # 4		315-320								SS FINE VISIBLE X-Bed (CMT)		MOD - HVY
		320-330								SS FRAGILE FINE X-Bed		LIGHT - MOD
		330-335								SS VISIBLE X-Bed (CMT)		MOD
		335-338								SS STEEP 30° X-Bed (top of forecast)		MOD - HVY
LOST		338-340										HVY
CORE # 5		340-346								SS, some VIS. X-Bed	Some cmt	MOD - HVY
MISSING 3'		346-351								FRAGILE NO VIS. X-Bed		MOD
MISSING 2'		351-356								SS, X-Bed (w/ HVY CMT, TIGHT ZONES)		HVY
CORE # 6		356-362								SS, X-Bed (w/ some cmt)		MOD HVY
		362-368								FRAGILE LITTLE CMT, FINE VIS X-Bed		MOD
CORE # 7		368-371								SS w/ X-Bed VIS, more cmt		HVY Sat
(370-390)		371-372										V HVY Sat
		372-376								SS w/ X-Bed VIS FRAGILE		MOD w/ HVY Sat X-Beds
		376-384								SS w/ X-Bed VIS	More cmt	HVY
		384-389								SS w/ X-Bed VIS CMT IN PDS FRAGILE		MOD
CORE # 8		389-395								" " " "		HVY
(390-400)		395-396								" " " "		MOD
		396-400								SS w/ X-Bed VIS		MOD TO HVY
CORE # 9		400-409								SS w/ X-Bed VIS HVY cmt		HVY
		409-420								SS WHITE TIGHT	Some cmt	MOD

240-409 Sat SS 1191

# Terra Tek Core Services

University Research Park · 360 Wakara Way · Salt Lake City, Utah 84108 (801) 584 2480 TWH 910-925-5284

## KIRKWOOD OIL & GAS

Well: 34-16D  
Field: Wildcat  
Drilling Fluid: Air Mist

State: Utah  
County: Garfield  
Location:

Date: 07 Jul 1982  
TTCS File #: 190  
Elevation:

## RETORT ANALYSIS

Sample Number	Depth (feet)	Permeability		Porosity (%)	Saturation		Grain Density (gm/cc)	Lithology
		Horz (md)	Vert (md)		Oil (%)	H2O (%)		

## TAR SAND FORMATION

1	279.0-80.0	9.2		15.6	55.1	7.7		Sd,fs,slty
2	280.0-81.0	497		15.2	64.5	6.6		Sd,fs
	281.0 - 282.0							DOL,SDY,SD STKS
	282.0 - 288.0							NOT SUBMITTED
	288.0 - 289.0							SH,SDY,DOL
3	289.0-91.0	283		21.8	14.7	2.8		Sd,fs
4	291.0-92.0	570		21.6	13.9	1.9		Sd,fs,lam
5	292.0-94.0	130		18.7	20.9	2.1		Sd,fs,sl/slt,lam
6	294.0-96.0	201		22.4	16.5	1.8		Sd,fs,sl/slt
7	296.0-97.0	357		22.7	16.7	1.8		Sd,fs
8	297.0-98.0	103		15.9	30.8	3.1		Sd,m-fs,sl/slt
9	298.0-00.0	189		16.7	29.3	5.4		Sd,fs,lam
10	300.0-02.0	10		12.5	42.4	9.6		Sd,m-fs,sl/slt,lam
11	302.0-03.0	1150		25.5	17.3	0.8		Sd,fs
12	303.0-05.0	1387		22.6	8.8	1.8		Sd,fs
13	305.0-06.0	1832		22.9	13.5	1.7		Sd,m-fs
14	306.0-07.0	935		23.4	11.5	0.9		Sd,fs
15	307.0-08.0	1110		20.6	13.6	1.9		Sd,m-fs,lam

# Terra Tek Core Services

Page 2

University Research Park - 360 Wakara Way - Salt Lake City, Utah 84108 (801) 584-2480 TWH, 910-925-5284

KIRKWOOD OIL 3 GAS

Date: 07 Jul 1982

TACS File #: 190

Well:

34-16D

Sample Number	Depth (feet)	Permeability		Porosity (%)	Saturation		Grain Density (gm/cc)	Lithology
		Horz (md)	Vert (md)		Oil (%)	H2O (%)		
16	308.0-10.0	342		15.7	38.2	7.6		Sd,m-fs,sl/slt,lan
17	310.0-11.0	31		19.2	26.0	4.7		Sd,vf,sl/slt
18	311.0-12.0	284		16.9	26.0	5.3		Sd,f,sl/slt
19	312.0-13.0	5.2		14.5	40.0	3.4		Sd,m-fs,sl/slt,lan
20	313.0-14.0	14		14.7	43.5	8.2		Sd,m-fs,sl/slt,lan
21	314.0-15.0	50		16.2	25.3	5.6		Sd,f-vf,sl/slt
22	315.0-17.0	211		21.5	17.2	2.8		Sd,f,sl/slt
23	317.0-19.0	237		21.9	18.7	2.7		Sd,f,sl/slt
24	319.0-21.0	457		18.7	20.3	2.1		Sd,f
25	321.0-22.0	543		23.9	14.2	0.8		Sd,f
26	322.0-24.0	650		23.9	12.1	0.8		Sd,f
27	324.0-26.0	312		22.1	14.0	0.9		Sd,f
28	326.0-28.0	379		24.2	12.8	1.7		Sd,f
29	328.0-30.0	695		23.8	13.0	0.8		Sd,f
30	330.0-31.0	82		16.3	36.2	3.1		Sd,m-fs,lan
31	331.0-33.0	57		15.8	35.4	3.2		Sd,f-vf,sl/slt
32	333.0-34.0	115		17.0	27.6	5.3		Sd,f-vf,sl/slt
33	334.0-35.0	85		16.8	30.4	3.0		Sd,f,sl/slt
34	335.0-37.0	698		25.3	11.9	0.8		Sd,m-fs
337.0 - 340.0								NOT RECOVERED
35	340.0-41.0	1300		23.8	22.3	1.7		Sd,f,sl/slt
36	341.0-43.0	3048		20.8	33.2	1.9		Sd,f
37	343.0-44.0	417		21.5	25.6	4.2		Sd,m-fs,lan

# Terra Tek Core Services

Page 3

University Research Park 360 Wakara Way Salt Lake City, Utah 84108 (801) 584 2480 TWX 910-925-5284

KIRKWOOD OIL & GAS  
Well:

34-16D

Date: 07 Jul 1982

TICS File #: 190

Sample Number	Depth (feet)	Permeability		Porosity (%)	Saturation		Grain Density (gm/cc)	Lithology
		Horz (md)	Vert (md)		Oil (%)	H <sub>2</sub> O (%)		
38	344.0-46.0	451		22.6	22.1	1.8		Sd,m-fs,lan
	346.0 - 348.0							NOT RECOVERED
39	348.0-49.0	380		22.0	25.0	1.8		Sd,fs
40	349.0-51.0	403		19.5	25.1	2.1		Sd,m-fs,lan
41	351.0-52.5	26		18.9	30.2	3.7		Sd,m-fs,sly,per
	352.5 - 355.5							NOT RECOVERED
42	355.5-56.0	604		21.1	15.2	0.9		Sd,fs
43	356.0-57.0	765		23.9	21.3	5.0		Sd,fs
44	357.0-59.0	386		23.6	21.6	2.5		Sd,fs
45	359.0-60.0	240		24.4	23.4	5.3		Sd,fs
46	360.0-61.0	230		22.4	32.1	5.8		Sd,fs
47	361.0-62.0	8.7		19.9	44.7	6.5		Sd,f-vfs
48	362.0-64.0	1213		26.2	15.6	0.8		Sd,fs
49	364.0-66.0	646		25.2	18.3	1.6		Sd,fs
50	366.0-67.0	248		18.0	37.8	3.9		Sd,fs
51	367.0-69.0	84		18.7	39.0	4.8		Sd,m-fs,lan
52	369.0-71.0	45		18.7	43.9	7.5		Sd,fs,sl/sly
53	371.0-72.0	3397		18.2	68.7	3.8		Sd,ms
54	372.0-73.0	859		19.1	36.1	2.1		Sd,m-fs,lan
55	373.0-75.0	883		24.7	12.6	1.6		Sd,fs
56	375.0-76.0	296		18.5	30.8	2.2		Sd,m-fs,lan
57	376.0-77.0	86		17.1	66.7	8.2		Sd,fs
58	377.0-79.0	84		16.4	62.8	11.6		Sd,m-fs,lan

# Terra Tek Core Services

Page 4

University Research Park 360 Wakara Way Salt Lake City, Utah 84108 (801) 584-2480 TLUH 910-925-5284

KIRKWOOD OIL & GAS

Date: 07 Jul 1982

TICS File #: 190

Well:

34-16D

Sample Number	Depth (feet)	Permeability		Porosity (%)	Saturation		Grain Density (gm/cc)	Lithology
		Horz (md)	Vert (md)		Oil (%)	H2O (%)		
59	379.0-81.0	439		18.6	67.2	3.8		Sd,m-fs
60	381.0-82.0	297		18.0	45.6	3.9		Sd,m-fs, lam
61	382.0-84.0	121		18.2	40.7	3.8		Sd,m-fs, sl/ltu, lam
62	384.0-85.0	833		22.8	13.6	1.8		Sd, fs, calc incl
63	385.0-86.0	667		25.4	13.0	1.6		Sd, fs, calc incl
64	386.0-87.0	1060		24.5	17.6	1.6		Sd, fs, calc incl
65	387.0-89.0	1123		25.6	14.8	1.6		Sd, fs, calc incl
66	389.0-90.0	333		24.1	36.9	3.3		Sd, fs
67	390.0-92.0	618		23.5	25.5	3.4		Sd,m-fs
68	392.0-93.0	839		20.5	51.2	3.4		Sd, fs
69	393.0-94.0	3.6		20.6	45.6	5.3		Sd, f-vfs, sl/ltu
70	394.0-96.0	81		20.3	33.0	4.4		Sd, f-vfs, sl/ltu
71	396.0-98.0	91		19.2	35.4	4.7		Sd, f-vfs, sl/ltu
72	398.0-99.0	83		16.6	39.8	8.4		Sd, f-vfs, sl/ltu
73	399.0-00.0	901		24.3	25.4	4.9		Sd, fs
74	400.0-02.0	76		17.9	40.2	10.1		Sd, f-vfs, sl/ltu
75	402.0-04.0	239		21.4	45.3	6.1		Sd, fs
76	404.0-05.0	114		23.0	75.2	3.9		Sd,m-fs, sl/ltu
77	405.0-06.0	21		15.9	62.3	10.1		Sd,m-fs, sl/ltu
78	406.0-07.0	118		15.8	36.1	10.1		Sd, fs
79	407.0-08.0	5.6	0.28	15.7	33.8	10.2		Sd, fs, sl/ltu
80	408.0-10.0	121	35	19.6	0.0	4.6		Sd, fs, sl/ltu
81	410.0-13.0	65	1.1	14.3	0.0	9.8		Sd, fs, sl/ltu

# Terra Tek Core Services

Page 5

University Research Park 360 Wakarusa Way Salt Lake City Utah 84108 (801) 584 2480 TWR 910-925-5284

KIRKWOOD OIL & GAS

Date: 07 Jul 1982

TICS File #: 190

Well:

34-16D

Sample Number	Depth (feet)	Permeability		Porosity (%)	Saturation		Grain Density (gm/cc)	Lithology
		Horz (md)	Vert (md)		Oil (%)	H2O (%)		
82	413.0-16.0	28	7.8	18.8	0.0	5.9		Sd, fmsl/sltu

RECEIVED  
JUL 09 1982

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116

DIVISION OF  
OIL, GAS & MINING

\*REPORT OF WATER ENCOUNTERED DURING DRILLING\*

Well Name & Number Hatch Canyon Unit #34-16D  
Operator William C. Kirkwood Address P.O. Drawer 3439 Casper, WY  
Contractor H.E. Beeman Drilling Address Moab Utah  
Location SW ¼ SE ¼ Sec. 16 T. 31S R. 15E County Garfield

Water Sands

	<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
	From	To	Flow Rate or Head	Fresh or Salty
1.	55'	60'	Approx. 5 gal/min	Fresh
2.				
3.				
4.				
5.				

(Continue of reverse side if necessary)

<u>Formation Tops</u>	0-60'	Chinle
	60'-255'	Moenkopi
<u>Remarks</u>	255'-290'	Upper White Rim
	290'-TD	White Rim

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.





STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

August 19, 1982

William C. Kirkwood  
P. O. Drawer 3439  
Casper, Wyoming 82602

Re: Well No. Hatch Canyon Unit #34-16D  
Sec. 16, T. 31S, R. 15E.  
Garfield County, Utah

Gentlemen:

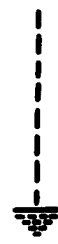
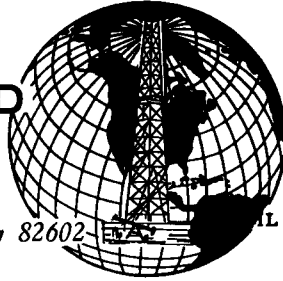
According to our records, a "Well Completion Report" filed with this office June 22, 1982, from above referred to well, indicates that the above well was cored. This office has not received a copy of the core description ran on the well. Would you kindly send us a copy of the core description. I would appreciate your attention to the above matter.

Thank You,

DIVISION OF OIL, GAS AND MINING

Cari Furse  
Clerk Typist

WILLIAM C. KIRKWOOD



Suite 300 Market Square Building — 307/265-5178

P. O. Drawer 3439 — Casper, Wyoming 82602

OIL & GAS EXPLORATION & PRODUCTION

September 27, 1982

RECORDED  
SEP 30 1982

Ms. Cari Furse  
State of Utah  
Natural Resources & Energy  
Oil Gas & Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

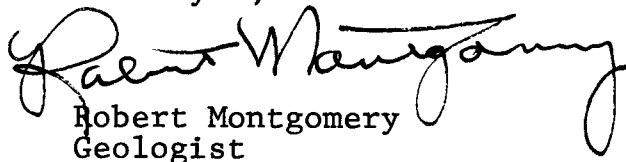
DIVISION OF  
OIL, GAS & MINING

RE: Well NO. Hatch Canyon Unit #34-16D  
Sec. 16, T31S, R15E  
Garfield County, Utah

Dear Cari:

Please find enclosed a copy of the core description and analysis for the above referred to well. If you require further information please contact us.

Thank you,

  
Robert Montgomery  
Geologist

RM/mw  
enclosure

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS, AND MINING**

SUBMIT TRIPPLICATE\*  
 (Other instructions on  
 reverse side)

### SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
 Use "APPLICATION FOR PERMIT—" for such proposals.)

<b>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></b> <b>2. NAME OF OPERATOR</b> W. C. Kirkwood Oil and Gas <b>3. ADDRESS OF OPERATOR</b> P. O. Drawer 3439 Casper, WY 82602 <b>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*</b> See also space 17 below.) At surface Wells located in Townships 31 and 32 South Ranges 14 & 15 East		<b>5. LEASE DESIGNATION AND SERIAL NO.</b>  <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</b>  <b>7. UNIT AGREEMENT NAME</b>  <b>8. FARM OR LEASE NAME</b>  <b>9. WELL NO.</b>  <b>10. FIELD AND POOL, OR WILDCAT</b>  <b>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b>  <b>12. COUNTY OR PARISH</b> <b>13. STATE</b>
---	--	--

**16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

**NOTICE OF INTENTION TO:**

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

**SUBSEQUENT REPORT OF:**

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <u>Well Status</u> <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

**17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \***

The wells described on the enclosed list are located within the Hatch Canyon Federal Oil and Gas Unit. This unit is located within the Tar Sand Triangle Special Tar Sand Area. All operations within the Hatch Canyon Unit have been suspended pending conversion of the federal leases within the unit to Combined Hydrocarbon Leases. Thus all operations on these wells have been suspended until conversion has taken place. At that time an additional Sundry Notice will be submitted outlining future activities involving these wells.

APR 6 1984

DIVISION OF  
OIL, GAS & MINING

**18. I hereby certify that the foregoing is true and correct**

SIGNED Robert H. Halpern

TITLE Geologist

DATE March 22, 1984

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

William C. Kirkwood  
#14-36 Technology  
2076' FWL 746' FSL  
Sec 36 Twp 31S R 14E  
Garfield County, Utah  
G.L. 4823'

Spudded 6/23/80  
T.D. 6/25/80 462'  
  
Deepened 7/1/80  
T.D. 7/12/80 1000'

---

William C. Kirkwood  
#33-29 Cromwell  
2023' FEL 741' FSL  
Sec 29 Twp 31S R 15E  
Garfield County, Utah  
G.L. 5120

Spudded 7/5/80  
T.D. 7/8/80 700'

---

William C. Kirkwood  
#23-8 Magnum  
1934' FEL 1667' FSL  
Sec 8 Twp 31S R 15E  
Garfield County, Utah  
G.L. 5084

Spudded 7/17/80  
T.D. 7/22/80 1100'

---

William C. Kirkwood  
#22-20 Monroe  
2962' FEL 1790' FNL  
Sec 20 Twp 31S R 15E  
Garfield County, Utah  
G.L. 4988

Spudded 7/9/80  
T.D. 7/15/80 800'

---

William C. Kirkwood  
#14-15 Remington  
554' FWL 697' FSL  
Sec 15 Twp 31S R 15E  
Garfield County, Utah  
G. L. 5307'

Spudded 8/1/80  
T.D. 8/3/80 1540'

William C. Kirkwood  
#14-15 Garfield  
4497' FWL 599' FSL  
Sec 15 Twp 31S R 15E  
Garfield County, Utah  
G.L. 5321'

Spudded 8/4/80  
T.D. 8/6/80 1000'

---

William C. Kirkwood  
#21-15 Winfield  
2222' FWL 481' FNL  
Sec 15 Twp 31S R 15E  
Garfield County, Utah  
G.L. 6127'

Spudded 8/12/80  
T.D. 8/14/80 1800'

---

William C. Kirkwood  
#44-4 White Rim  
401' FEL 1498' FSL  
Sec 4 Twp 31S R 15E  
Garfield County, Utah  
G.L. 6005'

Spudded 8/14/80  
T.D. 8/16/80 1640'

---

William C. Kirkwood  
#34-16 State  
699' FSL 1842' FEL  
Sec 16 Twp 31S R 15E  
Garfield County, Utah  
G.L. 5058'

Spudded 8/22/80  
T.D. 8/24/80 620'

---

William C. Kirkwood  
#34-16 Hatch Canyon Unit  
SWSE 16-31S-15E  
699' FSL 1842' FEL

Spudded 8/22/80  
T.D. 620'  
G.L. 5058'

---

William C. Kirkwood  
34-16A Hatch Canyon Unit  
SWSE 16-31S-15E  
752 FSL 1789 FEL

Spudded 10/6/80  
T.D. 440'  
G.L. 5058'

---

William C. Kirkwood  
34-16B Hatch Canyon Unit  
SWSE 16-31S-15E  
805' FSL 1736' FEL

Spudded 6/21/81  
T.D. 800'  
G.L. 5058'

---

William C. Kirkwood  
34-16C Hatch Canyon Unit  
SWSE 16-31S-15E  
699' FSL 1736' FEL

Spudded 12/19/81  
T.D. 500'  
G.L. 5058'

---

William C. Kirkwood  
34-16D Hatch Canyon Unit  
SWSE 16-31S-15E  
805' FSL 1842' FEL

Spudded 6/12/82  
T.D. 510'  
G.L. 5058'

ENTITY ACTION FORM - FORM 6

OPERATOR WILLIAM C. KIRKWOOD

OPERATOR ACCT. NO. N 3260

ADDRESS P. O. BOX 3439

CASPER, WY 82602

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99998	11123	4301730108	HATCH CANYON UNIT 34-16C	SWSE	16	31S	15E	GARFIELD	12-19-81	10-29-90
WELL 1 COMMENTS: **PA'D 12-20-81 IN ERROR, SI PER 1987 INSPECTION REPORT. ENTITY 11123 ADDED 10-29-90 EFF. SAME <i>for</i>											
A	99998	11124	4301730109 <sup>50</sup>	HATCH CANYON UNIT 34-16D	SWSE	16	31S	15E	GARFIELD	6-12-82	
WELL 2 COMMENTS: **PA'D 6-13-83 IN ERROR, SI PER 1987 INSPECTION REPORT. ENTITY 11124 ADDED 10-29-90 EFF. SAME <i>for</i>											
WELL 3 COMMENTS: <i>LCR 10-29-90</i>											
WELL 4 COMMENTS: <i>The status on this well was incorrectly input a PA years ago - I had DTC correct the status. It needs an Entity No. now.</i>											
WELL 5 COMMENTS: <i>DTS</i>											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

LISHA ROMERO (DOGM)

Signature

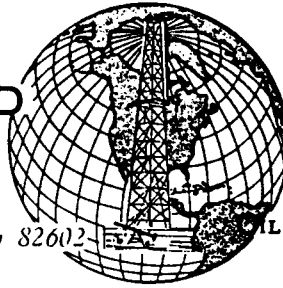
ADMINISTRATIVE ANALYST 10-29-90

Title

Date

Phone No. ( )

WILLIAM C. KIRKWOOD



120 South Durbin — 307/265-5178

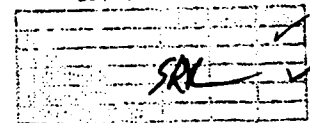
P. O. Drawer 3439 — Casper, Wyoming 82602 — OIL & GAS EXPLORATION & PRODUCTION

June 3, 1991

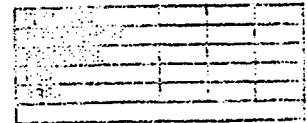
RECEIVED

AUG 26 1991

DIVISION OF  
OIL GAS & MINING



JUN 5 1991



Bureau of Land Management  
Richfield District Office  
150 East 900 North  
Richfield, UT 84701

Attention: Michael Jackson

Re: Hatch Canyon Unit  
Well # 14-15, 21-15, 44-15  
Sec. 15, T31S, R15E  
Garfield County, UT

Gentlemen:

Enclosed please find Sundry Notices for plugging three wells in the Hatch Canyon Unit located in Section 15.

With regard to your concern of the four shallowed unplugged holes associated with the #14-15 well: Kirkwood has no record of any such wells, however, we do have a five spot pattern located in Section 16 (copies of location plot and completion reports enclosed). This pattern could possibly be what they are talking about.

If I can be of further assistance, please advise.

Sincerely,

Robert Kirkwood  
Engineer

RK/mm

Enclosures

RECEIVED

AUG 26 1991

DIVISION OF  
OIL, GAS & MINING

# ROUTING AND TRANSMITTAL SLIP

Date 8/23/91

TO: (Name, office symbol, room number, building, Agency/Post)

1. Frank Matthews
2. DOGM
3. STATE OF UTAH, DIVISION OF OIL, GAS & MINING
4. 3Tried Center, Sec 350
5. SLC, 241B9-1203

Action	File	Note and Return
Approval	For Clearance	For Clearance
As Requested	For Correction	Prepare Report
Circulate	For Your Information	See Me
Comment	Investigate	Signature
Coordination	Justify	

**RECEIVED**

AUG 26 1991

## REMARKS

Enclosed are the <sup>APPROVAL FOR</sup> **DIVISION OF OIL, GAS & MINING** for P&A of 3 wells on BLM lands.

Also, enclosed are reports related to wells on Sec. 16, which I'd talked to you about.

Give me a call if questions.

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)

Michael Jackson

Room No.—Bldg.

BLM-Richfield

Phone No.

801 896-8221

5041-102

\* U.S. GPO: 1988 — 241-174

OPTIONAL FORM 41 (Rev. 7-76)  
Prescribed by GSA  
FPMR (41 CFR) 101-11.206



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  <small>Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.</small>		5. Lease Designation and Serial Number: <p style="text-align: center;"><b>ML-27138</b></p>
1. Type of Well:    OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER:		6. If Indian, Allottee or Tribe Name:
2. Name of Operator: <p style="text-align: center;"><b>WILLIAM C. KIRKWOOD</b></p>		7. Unit Agreement Name: <p style="text-align: center;"><b>HATCH CANYON UNIT</b></p>
3. Address and Telephone Number: <p style="text-align: center;"><b>P. O. BOX 3439    CASPER, WY    82602-3439</b></p>		8. Well Name and Number: <p style="text-align: center;"><b>State 34-16D</b></p>
4. Location of Well <b>752    1895</b> Footages: <b>805' FSL, 7842' FEL</b> QQ, Sec., T., R., M.: <b>Sec. 16    T 31S, R 15E</b>		9. API Well Number: <p style="text-align: center;"><b>4301730109</b></p>
		10. Field and Pool, or Wildcat:  County: <b>Garfield</b> State: <b>Utah</b>

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> Abandonment  <input type="checkbox"/> Casing Repair  <input type="checkbox"/> Change of Plans  <input type="checkbox"/> Conversion to Injection  <input type="checkbox"/> Fracture Treat  <input type="checkbox"/> Multiple Completion  <input type="checkbox"/> Other _____           </div> <div style="width: 48%;"> <input type="checkbox"/> New Construction  <input type="checkbox"/> Pull or Alter Casing  <input type="checkbox"/> Recompletion  <input type="checkbox"/> Shoot or Acidize  <input type="checkbox"/> Vent or Flare  <input type="checkbox"/> Water Shut-Off           </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> Abandonment *  <input type="checkbox"/> Casing Repair  <input type="checkbox"/> Change of Plans  <input type="checkbox"/> Conversion to Injection  <input type="checkbox"/> Fracture Treat  <input type="checkbox"/> Other _____           </div> <div style="width: 48%;"> <input type="checkbox"/> New Construction  <input type="checkbox"/> Pull or Alter Casing  <input type="checkbox"/> Shoot or Acidize  <input type="checkbox"/> Vent or Flare  <input type="checkbox"/> Water Shut-Off           </div> </div>
Approximate date work will start _____	Date of work completion _____  <small>Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.</small> <small>* Must be accompanied by a cement verification report.</small>

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS** (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

**ANNUAL STATUS REPORT**

*The above referenced well was drilled and completed as an exploratory well in a heavy oil project. Although substantial oil reserves were found, low oil prices suspended further development and this well was put in a temporarily abandoned status.*

**13.**  
 Name & Signature: *Robert W. Hake* Title: Engineer Date: 12/18/92

(This space for State use only)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.</small>		3. Lease Designation and Serial Number: <b>ML 27138</b>
		6. If further, Abandon or Tethered:
1. Type of Well: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER:		7. Unit Agreement Name: <b>Hatch Canyon Unit</b>
2. Name of Operator: <b>William C. Kirkwood</b>		8. Well Name and Number: <b>34-16D</b>
3. Address and Telephone Number: <b>P. O. Box 3439, Casper, WY 82602</b>		9. API Well Number: <b>43-017-30109</b>
4. Location of Well Footage: <b>805' FSL, 1842' FEL</b>		10. Field and Pool, or Wildcat <b>Wildcat</b>
CO. Sec., T., R., M.: <b>Sec. 16, T31S, R15E</b>		County: <b>Garfield</b> State: <b>Utah</b>

## 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input checked="" type="checkbox"/> Abandon <input type="checkbox"/> Repair Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Fracture Treat or Acidize <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other	<input type="checkbox"/> Abandon <input type="checkbox"/> Repair Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Fracture Treat or Acidize <input type="checkbox"/> Other
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recomplete <input type="checkbox"/> Reperforate <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Reperforate <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate date work will start <u>Sept. 15, 1997</u>	Date of work completion _____ Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form. • Must be accompanied by a core verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measures and true vertical depths for all surfaces and zones pertinent to this work.)

Kirkwood plans to P & A the above referenced well by filling the casing with cement from the surface, installing a dry hole marker and restoring the surface.

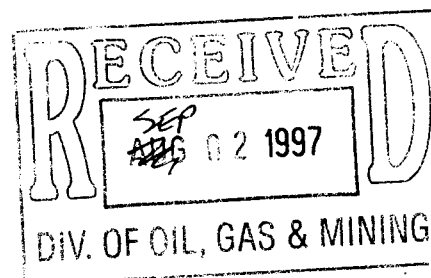
13. Name & Signature: Robert W. Kirkwood Title: Engineer Date: 8/28/97

(This space for State use only)

(104)

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 9/22/97  
BY: [Signature]



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  <small>Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.</small>		3. Lease Designation and Serial Number: ML 27138
		6. If further, Abbrev or Tiths Name:
1. Type of Well: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER:		7. Unit Agreement Name: Hatch Canyon Unit
2. Name of Operator: William C. Kirkwood		4. Well Name and Number: 34-16D
3. Address and Telephone Number: P. O. Box 3439, Casper, WY 82602		8. API Well Number: 43-017-30109
4. Location of Well: Footages: 805' FSL, 1842' FEL CO. Sec., T., R., M.: Sec. 16, T31S, R15E		10. Field and Pool, or Wildcat: Wildcat
		County: Garfield State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																											
<b>NOTICE OF INTENT</b> (Submit in Duplicate) <table border="0"> <tr> <td><input type="checkbox"/> Abandon</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Repair Casing</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Recomplete</td> </tr> <tr> <td><input type="checkbox"/> Convert to Injection</td> <td><input type="checkbox"/> Reperforate</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat or Acidize</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Multiple Completion</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> <td></td> </tr> </table>	<input type="checkbox"/> Abandon	<input type="checkbox"/> New Construction	<input type="checkbox"/> Repair Casing	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Reperforate	<input type="checkbox"/> Fracture Treat or Acidize	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Other _____		<b>SUBSEQUENT REPORT</b> (Submit Original Form Only) <table border="0"> <tr> <td><input checked="" type="checkbox"/> Abandon</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Repair Casing</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Reperforate</td> </tr> <tr> <td><input type="checkbox"/> Convert to Injection</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat or Acidize</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> <td></td> </tr> </table>	<input checked="" type="checkbox"/> Abandon	<input type="checkbox"/> New Construction	<input type="checkbox"/> Repair Casing	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Reperforate	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat or Acidize	<input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Other _____	
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<input type="checkbox"/> Other _____																											
Approximate date work will start _____	Date of work completion <u>10/27/97</u>  <small>Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form. * Must be accompanied by a cement verification report.</small>																										

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and stratigraphic and true vertical depths for all markers and zones pertinent to this work.)

Please be advised that the above referenced well was plugged in accordance with the approved plan dated 9/22/97 and is ready for final inspection.

13. Name & Signature: Robert W. Kirkwood Title: Engineer Date: 11/11/97

(This space for State use only)

